

# CorrBlock™

## Slow release VpCI® containing block for corrosion protection in cooling and waste water systems



### PRODUCT DESCRIPTION

CorrBlock is formulated using renewable soybean-based wax and proven Vapor phase Corrosion Inhibitor (VpCI) technology. When immersed in water CorrBlock slowly dissolves and releases calculated amount of inhibitors required for corrosion protection of a system. The inhibitors in CorrBlock provide multimetal protection including ferrous metals, galvanized steel, aluminum, and yellow metals. They can replace chromates, nitrites, and other types of restricted corrosion inhibitors. The VpCIs form a strong monomolecular layer on metal surfaces that protect in all three phases -- liquid, vapor, and the vapor-liquid interface.

CorrBlock provides water treatment companies with the ability to conveniently incorporate Cortec® VpCI technology into their specific applications.

CorrBlock conforms with NACE Standard Practice RP0487-2000, NACE Standard Test Method TM0208-2008, and MIL-I-22110C.

### TYPICAL APPLICATIONS

CorrBlock is suitable for open loop re-circulating cooling systems and waste water systems. The product can be placed in make-up water, cooling tower basin, returned water circuits, or waste water systems. In typical use CorrBlock should be replaced every 1-2 months.

CorrBlock is suitable for use in metalworking machines that are water cooled. This helps protect the tool and parts being machined. CorrBlock is generally compatible with coolant, however testing is recommended.

### DOSAGE RATES

CorrBlock should provide 50 - 100 ppm of inhibitors in a system when immersed. Each CorrBlock weighs approximately 400g and is made to treat 4000 liters of running water. The exact amount of CorrBlock needed for a system should be determined based on water volume, flow rate, water temperature, and water chemistry. When a CorrBlock is dissolved a new one can be easily added to the system to provide continued protection.

### FEATURES

- Safe to handle
- Eliminates the need for dosing pumps and tanks for conventional liquid inhibitors
- Protects tools, workpiece, and metalworking machines during downtime
- Protects carbon steels, zinc, stainless steel, galvanized steel, copper, and other yellow metals
- Prevents corrosion and pitting
- Contains contact and vapor phase corrosion inhibitors
- Can be used as a corrosion inhibitor additive in majority of water treatment programs
- Compatible with majority of commercially available biocides and antiscalants
- Nitrite, chromate, and heavy metal free
- Easy application
- Environmentally friendly formulation
- Easily traceable utilizing a Molybdenum test kit
- Does not cause foaming
- Does not promote bacteria growth

### TYPICAL PROPERTIES

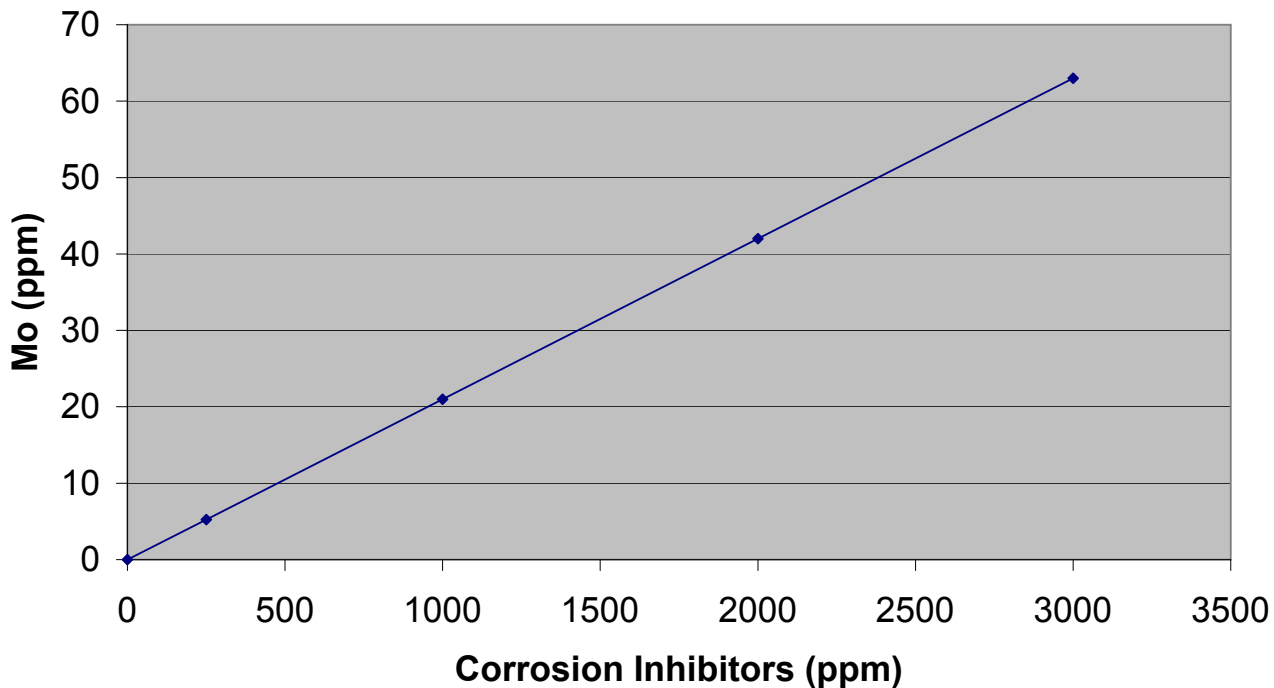
Appearance                      Green block

### PACKAGING AND STORAGE

They should be stored in a tightly closed container. The shelf life is 2 years.



# Theoretical Correlation: Tracer Molybdenum vs. Inhibitors in a system



**FOR INDUSTRIAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**  
**KEEP CONTAINER TIGHTLY CLOSED**  
**NOT FOR INTERNAL CONSUMPTION**  
**CONSULT SAFETY DATA SHEET FOR MORE INFORMATION**

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